

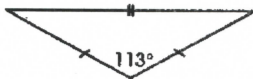
UNIT 4 WORKSHEET 5

SHOW ALL YOUR WORK!!!

TARGET A

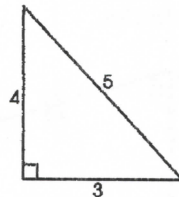
Classify the triangles according to their **sides** and **angles**.

1.)



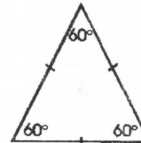
side ISOSCELES
angle OBTUSE

2.)



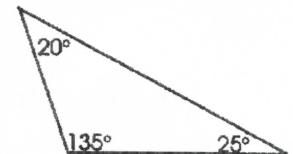
side SCALENE
angle RIGHT

3.)



side EQUILATERAL
angle EQUIANGULAR

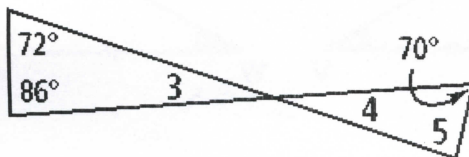
4.)



side SCALENE
angle OBTUSE

TARGET B

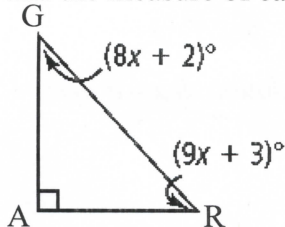
5.) Find the measure of the missing angles.



$$\begin{aligned} m\angle 3 &= \underline{22^\circ} \\ m\angle 4 &= \underline{22^\circ} \\ m\angle 5 &= \underline{88^\circ} \end{aligned}$$

Find x and the measure of each angle.

6.)



$$\begin{aligned} 8x + 2 + 9x + 3 &= 90 \\ 17x + 5 &= 90 \\ 17x &= 85 \\ x &= 5 \end{aligned}$$

$$x = \underline{5}$$

$$m\angle G = \underline{42^\circ}$$

$$m\angle R = \underline{48^\circ}$$

7.)

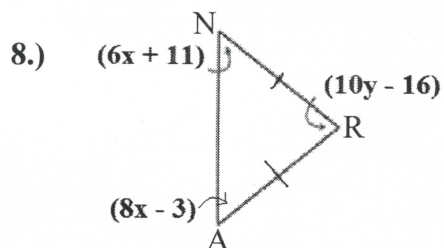


$$\begin{aligned} x + 2x + 6 + 2x - 6 &= 180^\circ \\ 5x &= 180^\circ \\ x &= 36^\circ \end{aligned}$$

$$x = \underline{36^\circ}$$

$$m\angle C = \underline{66^\circ}$$

$$m\angle T = \underline{78^\circ}$$



$$(6x + 11) = (8x - 3)$$

$$11 = 2x - 3$$

$$14 = 2x$$

$$7 = x$$

$$x = 7$$

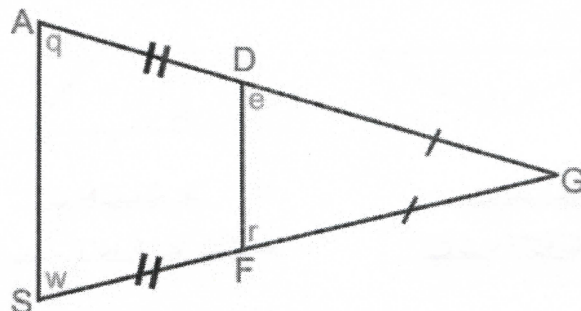
$$m\angle N = 53^\circ$$

$$m\angle R = 74^\circ$$

7.) Fill in the blanks with the appropriate pair of angles or segments.

If $\overline{GF} \cong \overline{GD}$, then $\angle e \cong \angle f$

If $\angle q \cong \angle w$, then $\overline{AG} \cong \overline{SG}$

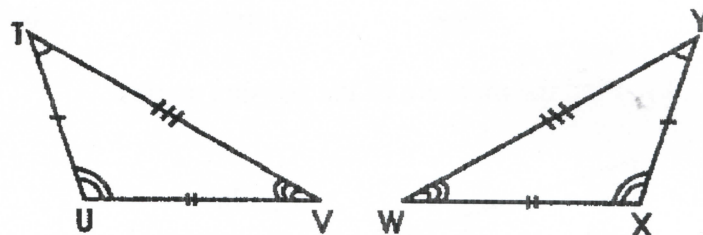


TARGET D

For #1 – 3, use the picture at the right.

10.) Name the angles that are congruent:
 $\angle U \cong \angle X$ $\angle T \cong \angle Y$ $\angle V \cong \angle W$

11.) Name the sides that are congruent:
 $\overline{TU} \cong \overline{YX}$ $\overline{TV} \cong \overline{YW}$ $\overline{UV} \cong \overline{XW}$



12.) Complete the following congruence statement: $\triangle TUV \cong \triangle YXW$



REMEMBER: When in doubt, draw it out!

13.) Which angle corresponds to $\angle A$? Write your answer in the blank provided.

A.) $\angle F$

B.) $\angle T$

C.) $\angle U$

D.) $\angle N$

Answer C

14.) Which side corresponds to \overline{TC} ? Write your answer in the blank provided.

A.) \overline{UF}

B.) \overline{NT}

C.) \overline{UN}

D.) \overline{NF}

Answer D